

CLAIM AMENDMENTS

IN THE CLAIMS

This listing of the claims will replace all prior versions, and listing, of claims in the application or previous response to office action:

1. (Original) A method for determining the position of at least one second transmitting and receiving device in respect of a first transmitting and receiving device in a passive access control system operating in the GHz range, comprising the steps of:
 - a) using a radar method, particularly an FM-CW radar method, by which signals are received in the first transmitting and receiving device on the left-hand side and right-hand side of a modulation frequency, and
 - b) determining the distance of two signals closest to the left-hand side and right-hand side modulation frequency, wherein the distance of the two signals is proportional to the distance between the first transmitting and receiving device and at least the second transmitting and receiving device so that multipath propagations are not taken into consideration.
2. (Original) The method according to claim 1, wherein the distance of the signals is determined by means of at least one bandpass filter wherein in a first measurement, starting out with a predefined lowest bandwidth and if signals are not detected within this bandwidth, the distance of the bottom and top limits of at least one bandpass filter is increased by the modulation frequency for the next measurement.
3. (Original) The method according to claim 2, wherein each subsequent measurement takes place with a predefined bandwidth in each case.

4. (Original) The method according to claim 3, wherein different ranges are assigned to different top and bottom measurements.

5. (Currently Amended) A first transmitting and receiving device for determining the position of ~~at least one further~~ a second transmitting and receiving device, wherein the first transmitting and receiving device comprises is embodied as an a FM-CW radar transmitting and receiving device wherein signals are received on the left-hand side and right-hand side of a modulation frequency, said device and comprises at least one bandpass filter to determine the distance of two signals lying closest to the left-hand side and right-hand side of the modulation frequency, wherein the distance of the two signals is proportional to the distance between the first transmitting and receiving device and the second transmitting and receiving device so that multipath propagations are not taken into consideration.

6. (Original) The transmitting and receiving device according to claim 5, wherein the at least one bandpass filter can be varied to perform consecutive measurements with different increasing bandwidths in each case.

7. (Original) The transmitting and receiving device according to claim 5, wherein the transmitting and receiving device has two bandpass filters to detect signals lying on the left-hand side and right-hand side of the modulation frequency, respectively.

8. (Currently Amended) An arrangement comprising:
[[- a]] first transmitting and receiving devices,
~~— a second transmitting and receiving device, wherein~~
[[-]] the first transmitting and receiving device can determine the position of the ~~at least~~ second transmitting and receiving device,

[[-]]the first transmitting and receiving device is ~~embodied as an~~ a FM-CW radar transmitting and receiving device wherein signals are received on the left-hand side and right-hand side of a modulation frequency, said device includes and comprises at least two ~~one~~ bandpass filters ~~to and~~ determines the distance of two signals lying closest to the left-hand side and right-hand side of the modulation frequency, wherein the distance of the two signals is proportional to the distance between the first and the second transmitting and receiving devices so that multipath propagations are not taken into consideration,

- the first transmitting and receiving device is ~~a embodied as the~~ base station of a vehicle, and wherein

- the ~~at least~~ second transmitting and receiving device has as an ID transmitter.

9. (Original) The arrangement according to claim 8, wherein the second transmitting and receiving device is embodied as a reflector that returns the signals of the first transmitting and receiving device in a modulated way.

10. (Currently Amended) The arrangement according to claim 8, wherein ~~a the at least one~~ bandpass filter can be varied to perform consecutive measurements with different increasing bandwidths in each case.

11. (Cancelled)